

# Simplex & Triplex Burners

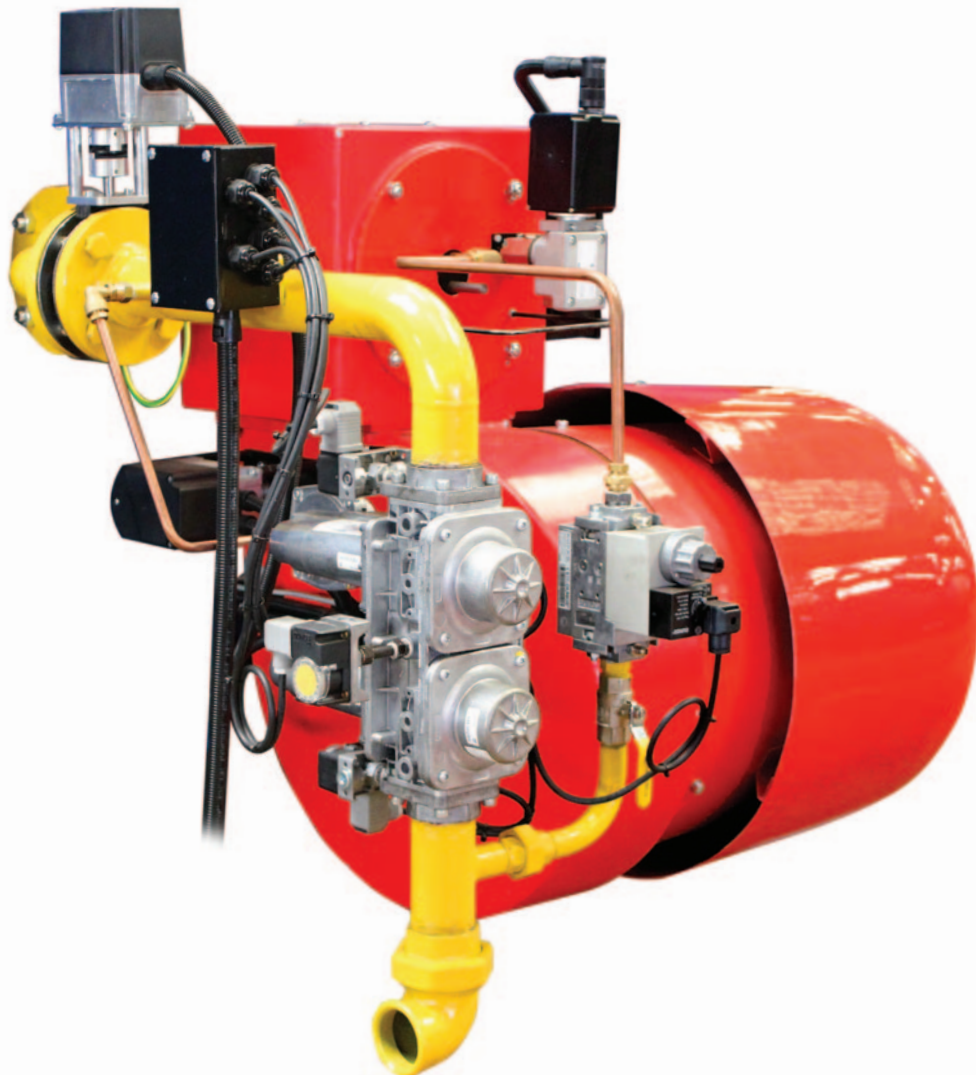
# 450-4500 kW

**Natural wear and tear, tough operating conditions and irregular maintenance can take their toll. Since boiler shells usually outlast other boiler plant, it makes sense to upgrade the ancillary plant during its working life. Burners are often replaced so that a new fuel can be used, such as converting from traditional heavy oil or coal, to natural gas or diesel.**

These designs features Cochran's unique combustion head, efficient combustion and low NO<sub>x</sub> throughout the firing range. Fully modulating options available throughout the range on all fuel types and combinations. Digital combustion systems can be incorporated into the burner control package. Subject to other plant and equipment within the boilerhouse, Cochran's Simplex and Triplex burners are MCPD compliant.

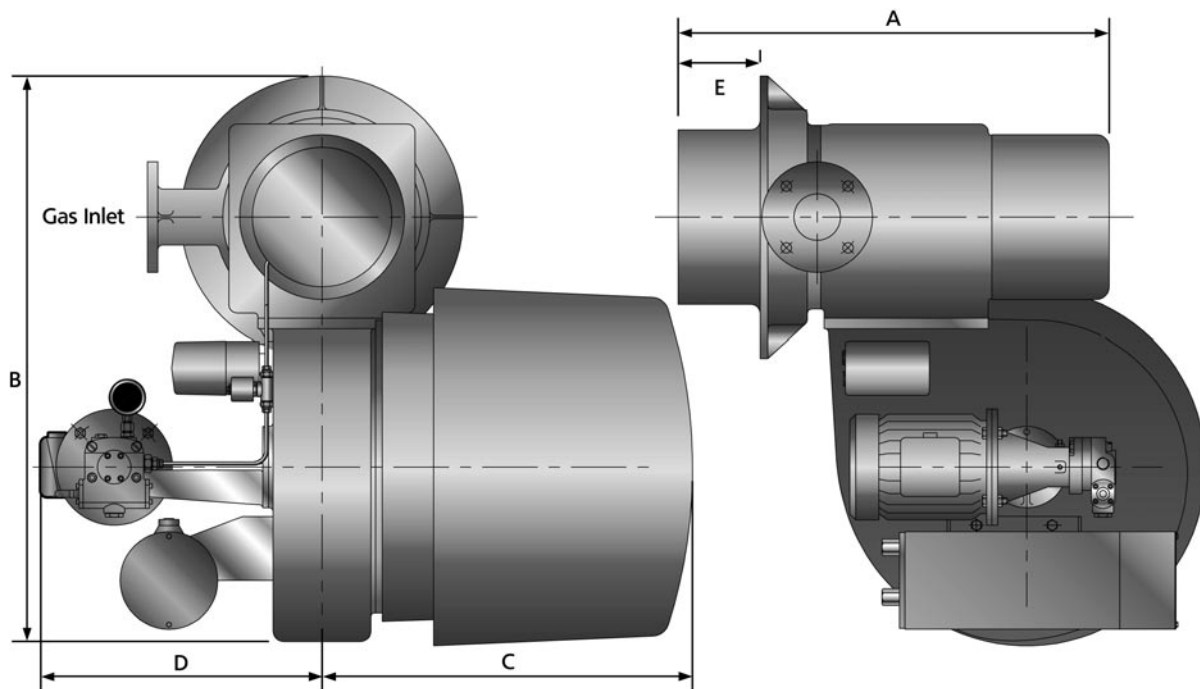
### **Cochran's Simplex and Triplex burners offer the following key features:**

- Suitable for firing oil or gaseous fuels, or for dual oil/gas firing, providing maximum flexibility.
- Unique combustion head delivers efficient fuel combustion and low NO<sub>x</sub> emissions throughout the firing range.
- Fully modulating options available throughout the range on all fuel types and combinations.
- Digital combustion systems can be incorporated into the burner control package.
- Suitable for operation and control using modern boiler management systems, such as Cochran's touchscreen Synergy and Eclipse boilerhouse operation technology.
- Subject to other plant and equipment within the boilerhouse, the Simplex and Triplex burner ranges are both MCPD compliant.
- Ideal for a broad spectrum of furnace applications, including kilns and dryers, as well as a wide variety of industrial steam and hot water boiler brands.
- Variable speed drives options are available.



# Simplex & Triplex Burners

# 450-4500 kW



**Oil Fired Burners** Suitable for viscosities from 35 SRNI to 4200 SRNI as per BS 2869

Burner Size			16 Two Stage	17 Two Stage	17 Three Stage	23 Three Stage	23 Modulating
Dimensions	A	mm	830	880	907	1106	1060
	B	mm	715	729	729	932	916
	C	mm	595	620	678	853	855
	D	mm	420	420	483	388	340
	E	mm	191	191	191	191	178
Maximum Input		kW	1650	3100	3100	3980	4300
Turndown			2.0 : 1	2.0 : 1	3.0 : 1	3.0 : 1	3.0 : 1
Typical Noise Level - dBa 1m from Burner			80	83/84	83/84	84-87	84-87
Approximate Burner Weight		Kg	158	192	190	215	215

## Gas and Dual Fired Burners

Burner Size			16 Two Stage	17 Two Stage	17 Three Stage	23 Three Stage	23 Modulating
Dimensions	A	mm	827	876/851	907	1074	1060
	B	mm	684	729	729	932	916
	C	mm	595	620	678	853	855
	D	mm	420	420	483	388	340
	E	mm	166	166/141	141	141	178
Maximum Input		kW	1650	3100	3100	3980	4300
Turndown			2.0 : 1	2.0 : 1	3.0 : 1	3.0 : 1	3.0 : 1
Typical Noise Level - dBa 1m from Burner			80	83/84	83/84	84-87	84-87
Approximate Burner Weight		Kg	184	220	230	250	240

**Options:** Remote monitoring and data logging - accessible via Internet; O<sub>2</sub> Trim; Exhaust Gas Monitoring; and Integral Gas Leak testing.

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